

NEW FLUOROUS TAGGING AND ACAVENGING REACTANTS AND METHODS OF SYNTHESIS AND USE THEREOF

ABSTRACT

The present invention includes methods and compositions for increasing the fluororous nature of an organic compound by reacting it with at least one fluororous compound to produce a fluororous tagged organic compound. The increased fluororous nature of the fluororous tagged organic compound can then be utilized to separate the fluororous organic compound from untagged reagents, reactants, catalysts and/or products derived therefrom. The resultant fluororous tagged organic compound can be subjected to subsequent chemical transformations, wherein the fluororous nature of the tagged compound is utilized to increase the ease of separation of the fluororous tagged organic compound from untagged reagents, reactants, catalysts and/or products derived therefrom, after each chemical transformation. The chemical transformations result in a second fluororous tagged organic compound wherein the fluororous nature of the second fluororous tagged organic compound can then be reduced by removing the fluororous group therefrom, thereby producing a second organic compound that may be employed as a pharmaceutical compound or intermediate, or a combinatorial library component.